


Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 5 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

RECEIVED


JAN 11 2001

TO 3600 MAIL ROOM

U.S. PATENT DOCUMENTS													
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
<i>RA</i>	CB	5	7	0	4	4	3	6	01/06/98	Smith et al.	175	27	03/25/96
	CC	5	7	1	1	3	8	1	01/27/98	Archambeault et al.	175	45	01/16/96
	CD	5	7	1	3	4	2	2	02/03/98	Dhindsa	175	27	02/28/94
	CE	5	7	2	0	3	5	4	02/24/98	Stump et al.	175	26	01/11/96
	CF	5	7	4	6	2	7	8	05/05/98	Bischel et al.	175	24	03/13/96
	CG	5	7	7	8	9	9	1	07/14/98	Runquist et al.	175	61	08/29/96
	CH	5	8	1	2	0	6	8	09/22/98	Wisler et al.	340	855.5	12/12/95
	CI	5	8	3	3	0	1	5	11/10/98	Hesse et al.	175	40	04/03/97
	CJ	5	8	5	0	6	2	4	12/15/98	Gard et al.	702	92	10/18/95
	CK	5	8	8	0	6	8	0	03/09/99	Wisehart et al.	340	853.4	12/06/96
	CL	5	9	0	4	2	1	0	05/18/99	Stump et al.	175	45	01/17/97
	CM	5	9	1	4	6	0	2	06/22/99	Mercer	324	326	05/20/98
	CN	5	9	4	1	3	2	0	08/24/99	Austin et al.	175	27	06/24/97
	CO	5	9	4	4	1	2	1	08/31/99	Bischel et al.	175	24	04/29/98

EXAMINER <i>Raymond W. Adair</i>	DATE CONSIDERED <i>11/15/01</i>
----------------------------------	---------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 4 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

RECEIVED

JAN 11 2001


TO 3600 MAIL ROOM

U.S. PATENT DOCUMENTS

EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
PA	BO	5	4	4	9	0	4	7	09/12/95	Schivley, Jr.	175	27	09/07/94
	BP	5	4	6	5	7	9	8	11/14/95	Edlund et al.	175	24	10/25/94
	BQ	5	4	6	9	1	5	5	11/21/95	Archambeault et al.	340	853.4	07/11/94
	BR	5	4	7	4	1	4	2	12/12/95	Bowden	175	27	04/19/93
	BS	5	5	1	3	7	1	0	05/07/96	Kuckes	175	45	11/07/94
	BT	5	5	3	8	4	2	3	07/23/96	Coss et al.	433	27	11/26/93
	BU	5	5	5	6	2	5	3	09/17/96	Rozendaal et al.	414	797.7	05/11/95
	BV	5	5	6	4	4	5	5	10/15/96	Keating et al.	137	2	01/06/95
	BW	5	5	8	5	7	2	6	12/17/96	Chau	324	326	05/26/95
	BX	5	6	0	7	2	8	0	03/04/97	Rozendaal	414	745.7	12/06/95
	BY	5	6	7	9	8	9	4	10/21/97	Kruger et al.	73	152.03	10/10/95
	BZ	5	6	8	4	4	6	6	11/04/97	Keating et al.	340	662	09/12/95
	CA	5	7	0	3	4	8	4	12/30/97	Bieberdorf et al.	324	207.22	10/04/93

EXAMINER <i>Reynold A. Kable</i>	DATE CONSIDERED 11/15/01
---	---------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 3 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned


JAN 11 2001

TO 3600 MAIL ROOM

U.S. PATENT DOCUMENTS														
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE	
RA	BB	5	2	6	9	3	8	3	12/14/93	Forrest	175	26	01/15/92	
	BC	5	2	9	4	2	2	8	03/15/94	Willis et al.	414	22.55	08/28/91	
	BD	5	3	2	0	1	8	0	06/14/94	Ruley et al.	175	26	10/08/92	
	BE	5	3	3	2	0	4	8	07/26/94	Underwood et al.	175	26	10/23/92	
	BF	5	3	4	1	8	8	6	08/30/94	Patton	175	24	07/27/93	
	BG	5	3	4	8	1	0	6	09/20/94	Mattero	175	27	06/22/93	
	BH	5	3	5	8	0	5	8	10/25/94	Edlund et al.	175	24	09/27/93	
	BI	5	3	9	0	7	4	8	02/21/95	Goldman	175	24	11/10/93	
	BJ	5	4	1	9	4	0	5	05/30/95	Patton	175	27	02/18/93	
	BK	5	4	2	1	4	2	0	06/06/95	Malone et al.	175	61	06/07/94	
	BL	5	4	3	9	0	6	4	08/08/95	Patton	175	24	10/09/92	
	BM	5	4	4	4	3	8	2	08/22/95	Mercer	324	690	06/14/94	
	BN	5	4	4	9	0	4	6	09/12/95	Kinnan	175	24	12/23/93	

EXAMINER <i>Raymond W. Caldwell</i>	DATE CONSIDERED 1/15/01
-------------------------------------	-------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 2 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

RECEIVED


JAN 11 2001

30 MAIL ROOM

U.S. PATENT DOCUMENTS													
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
<i>Rut</i>	AO	4	6	8	8	9	7	0	08/25/87	Eckman	408	9	08/09/85
	AP	4	7	1	0	7	0	8	12/01/87	Rorden et al.	324	207	07/23/82
	AQ	4	7	3	0	2	5	4	03/08/88	Voden, Jr.	364	422	02/03/86
	AR	4	7	9	3	4	2	1	12/27/88	Jasinski	175	27	07/13/87
	AS	4	8	5	4	3	9	7	08/08/89	Warren et al.	175	26	09/15/88
	AT	4	8	5	6	6	0	0	08/15/89	Baker et al.	175	26	10/21/88
	AU	4	8	7	5	0	1	4	10/17/89	Roberts et al.	324	326	07/20/88
	AV	4	8	7	5	2	9	2	10/24/89	Gibson	33	304	04/08/86
	AW	4	8	8	1	0	8	3	11/14/89	Chau et al.	342	459	10/02/86
	AX	4	9	5	1	7	5	9	08/28/90	Richardson	175	85	06/05/89
	AY	4	9	9	2	7	8	7	02/12/91	Helm	340	854	09/20/88
	AZ	5	0	2	7	1	0	8	06/25/91	Gray	340	662	03/05/90
	BA	5	2	2	0	9	6	3	06/22/93	Patton	175	24	12/22/89

EXAMINER <i>Raymond W. Halsey</i>	DATE CONSIDERED 1/15/01
-----------------------------------	-------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.


Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT  RECEIVED JAN 11 2001		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 1 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

TO 3600 MAIL ROOM
U.S. PATENT DOCUMENTS

EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>RAA</i>	AA	3	7	1	3	5	0	0	01/30/73	Russell	175	73	04/08/70
	AB	3	9	3	8	5	9	7	02/17/76	Richmond et al.	175	24	11/29/74
	AC	3	9	3	9	9	2	6	02/24/76	Barnes et al.	175	24	11/29/74
	AD	4	0	4	2	0	4	3	08/16/77	Appleman	173	152	07/02/75
	AE	4	1	1	3	0	3	3	09/12/78	Lindblad	173	1	09/02/77
	AF	4	1	8	7	5	4	6	02/05/80	Heffernan et al.	364	565	03/15/77
	AG	4	1	9	5	6	9	9	04/01/80	Rogers et al.	175	27	06/29/78
	AH	4	2	7	5	7	9	3	06/30/81	Schivley, Jr. et al.	173	9	02/14/77
	AI	4	4	4	9	5	9	2	05/22/84	Mayer	175	52	03/23/81
	AJ	4	4	6	3	8	1	4	08/07/84	Horstmeyer et al.	175	45	11/26/82
	AK	4	5	0	1	1	9	9	02/26/85	Mashimo et al.	102	313	02/10/83
	AL	4	5	3	1	8	7	5	07/30/85	Krueger	414	22	08/17/82
	AM	4	6	0	4	7	2	4	08/05/86	Shaginian et al.	364	478	10/04/85
	AN	4	6	6	7	7	5	1	05/26/87	Geczy et al.	175	61	10/11/85

EXAMINER <i>Raymond W. Carlin</i>	DATE CONSIDERED <i>1/15/01</i>
-----------------------------------	--------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.

Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 6 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

RECEIVED

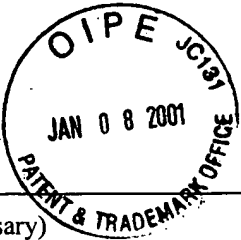
JAN 11 2001

TO 3600 MAIL ROOM

U.S. PATENT DOCUMENTS													TO 3600
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
PM	CP	5	9	6	1	2	5	2	10/05/99	Mercer et al.	405	175	10/20/97
	CQ	6	0	0	8	6	5	1	12/28/99	Mercer	324	326	08/18/98
	CR	6	0	2	1	3	7	7	02/01/00	Dubinsky et al.	702	9	10/23/96
	CS	6	0	3	5	9	5	1	03/14/00	Mercer et al.	175	45	04/16/97
	CT	6	0	4	7	7	8	3	04/11/00	Mercer et al.	175	45	10/21/99
	CU	6	0	7	9	5	0	6	06/27/00	Mercer	175	45	04/27/98
	CV	6	0	8	5	8	5	2	07/11/00	Sparks et al.	175	52	03/29/96
	CW	6	0	9	1	3	3	7	07/18/00	Arshad et al.	340	662	03/15/99
	CX	6	0	9	5	2	6	0	08/01/00	Mercer et al.	175	45	10/21/99
	CY	6	1	0	9	3	6	7	08/29/00	Bischel et al.	175	24	08/27/99
	CZ	6	1	1	9	3	7	6	09/19/00	Stump	37	348	08/25/97
	DA	6	1	6	1	6	3	0	12/19/00	Stump et al.	175	26	05/13/99

EXAMINER <i>Richard L. Matie</i>	DATE CONSIDERED
----------------------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 7 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

RECEIVED

JAN 11 2001

TO 3600 MAIL ROOM

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	DB	9	2	1	4	0	2	7	08/20/92	PCT	E21B	7/04	N/A
	DC	9	7	2	5	5	1	9	07/17/97	PCT	E21B	47/022	N/A
	DD	9	7	3	3	0	6	5	09/12/97	PCT	E21B	7/06	N/A
	DE	9	7	4	9	8	8	9	12/31/97	PCT	E21B	7/04	N/A
	DF	0	4	6	7	6	4	2	01/22/92	EPO	E21B	4/20	N/A
	DG	0	5	9	4	4	1	8	04/27/94	EPO	E21B	44/00	N/A
	DH	0	6	8	6	7	5	2	12/13/95	EPO	E21B	7/06	N/A
	DI	0	7	1	8	6	4	1	06/26/96	EPO	E21B	47/12	N/A
	DJ	0	7	9	9	9	6	9	10/08/97	EPO	E21B	44/00	Yes
	DK	0	8	0	6	5	4	2	11/12/97	EPO	E21B	7/06	N/A

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

* The date should include at least the month and year for a foreign application.

** Place of Publication refers to name of publication in which the information being submitted was published.

SVO/tdr/387145